



TORQ Analysis of Prepress Technicians and Workers to Office Machine Operators, Except Computer

INPUT SECTION:

Transfer	Title	O*NET	Filters		
From Title:	Prepress Technicians and Workers	51-5022.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Office Machine Operators, Except Computer	43-9071.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

OUTPUT SECTION:

Grand TORQ:

80

Ability TORQ

Skills TORQ

Knowledge TORQ

Level



63

Level



90

Level



87

Gaps To Narrow if Possible

Upgrade These Skills

Knowledge to Add

Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Speech Recognition	37	25	50	Service Orientation	49	3	75	No Knowledge Upgrades Required!			
Far Vision	42	24	50	Reading Comprehension	59	1	81				
Selective Attention	41	20	56								
Oral Expression	41	22	50								
Oral Comprehension	44	19	56								
Inductive Reasoning	39	17	50								
Mathematical Reasoning	32	16	50								
Category Flexibility	37	13	56								
Written Comprehension	41	11	62								
Problem Sensitivity	42	12	56								
Perceptual Speed	37	12	53								
Deductive Reasoning	39	10	53								
Information Ordering	44	4	53								
Control Precision	37	4	50								
Manual Dexterity	35	3	50								
Finger Dexterity	37	3	50								



LEVEL and IMPT (IMPORTANCE) refer to the Target Office Machine Operators, Except Computer. GAP refers to level difference between Prepress Technicians and Workers and Office Machine Operators, Except Computer.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50

Description	Prepress Technicians and Workers	Office Machine Operators, Except Computer	Importance
Written Comprehension	30	41	62
Near Vision	49	48	62
Oral Comprehension	25	44	56
Problem Sensitivity	30	42	56
Category Flexibility	24	37	56
Selective Attention	21	41	56
Deductive Reasoning	29	39	53
Information Ordering	40	44	53
Perceptual Speed	25	37	53
Oral Expression	19	41	50
Inductive Reasoning	22	39	50
Mathematical Reasoning	16	32	50
Arm-Hand Steadiness	39	37	50
Manual Dexterity	32	35	50
Finger Dexterity	34	37	50
Control Precision	33	37	50
Far Vision	18	42	50
Speech Recognition	12	37	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Prepress Technicians and Workers	Office Machine Operators, Except Computer	Importance
Active Listening	53	53	86
Reading Comprehension	58	59	81
Service Orientation	46	49	75
Speaking	58	53	70

Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Prepress Technicians and Workers	Office Machine Operators, Except Computer	Importance
English Language	61	52	71

Experience & Education Comparison

Related Work Experience Comparison

Required Education Level Comparison



Description	Prepress Technicians and Workers	Office Machine Operators, Except Computer	Description	Prepress Technicians and Workers	Office Machine Operators, Except Computer
10+ years	0%	0%	Doctoral	0%	0%
8-10 years	10%	0%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	22%	0%	Master's Degree	0%	0%
2-4 years	13%	4%	Post-Bachelor Cert	0%	0%
1-2 years	25%	20%	Bachelors	0%	0%
6-12 months	22%	0%	AA or Equiv	23%	7%
3-6 months	2%	0%	Some College	23%	7%
1-3 months	0%	8%	Post-Secondary Certificate	27%	0%
0-1 month	1%	0%	High School Diploma or GED	25%	61%
None	2%	67%	No HSD or GED	0%	23%

Prepress Technicians and Workers

Office Machine Operators, Except Computer

Most Common Educational/Training Requirement:

Postsecondary vocational award

Short-term on-the-job training

Job Zone Comparison

3 - Job Zone Three: Medium Preparation Needed

Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.

Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree. Some may require a bachelor's degree.

Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.

1 - Job Zone One: Little or No Preparation Needed

No previous work-related skill, knowledge, or experience is needed for these occupations. For example, a person can become a cashier even if he/she has never worked before.

These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.

Employees in these occupations need anywhere from a few days to a few months of training. Usually, an experienced worker could show you how to do the job.

Tasks

Prepress Technicians and Workers

Core Tasks

Generalized Work Activities:

- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Making Decisions and Solving Problems - Analyzing information and evaluating results to choose the best solution and solve problems.
- Interacting With Computers - Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.

Office Machine Operators, Except Computer

Core Tasks

Generalized Work Activities:

- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.



- Organizing, Planning, and Prioritizing Work - Developing specific goals and plans to prioritize, organize, and accomplish your work.

Specific Tasks

Occupation Specific Tasks:

- Activate scanners to produce positive or negative films for the black-and-white, cyan, yellow, and magenta separations from each original copy.
- Analyze originals to evaluate color density, gradation highlights, middle tones, and shadows, using densitometers and knowledge of light and color.
- Arrange and mount typeset material and illustrations into paste-ups for printing reproduction, based on artists' or editors' layouts.
- Correct minor film mask defects with litho tape or opaquing fluid.
- Enter, position, and alter text size, using computers, to make up and arrange pages so that printed materials can be produced.
- Enter, store, and retrieve information on computer-aided equipment.
- Examine finished plates to detect flaws, verify conformity with master plates, and measure dot sizes and centers, using light-boxes and microscopes.
- Examine photographic images for obvious imperfections prior to plate making.
- Examine unexposed photographic plates to detect flaws or foreign particles prior to printing.
- Inspect developed film for specified results and quality, using magnifying glasses and scopes; forward acceptable negatives or positives to other workers or to customers.
- Lower vacuum frames onto plate-film assemblies, activate vacuums to establish contact between film and plates, and set timers to activate ultraviolet lights that expose plates.
- Maintain, adjust, and clean equipment, and perform minor repairs.
- Mix solutions such as developing solutions and colored coating solutions.
- Monitor contact between cover glass and masks inside vacuum frames, in order to prevent flaws resulting from overexposure or light reflection.
- Mount negatives and plates in cameras, set exposure controls, and expose plates to light through negatives in order to transfer images onto plates.
- Operate and maintain a variety of cameras and equipment, such as process

- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.

Specific Tasks

Occupation Specific Tasks:

- Clean and file master copies or plates.
- Clean machines, perform minor repairs, and report major repair needs.
- Complete records of production, including work volumes and outputs, materials used, and any backlogs.
- Compute prices for services and receive payment, or provide supervisors with billing information.
- Cut copies apart and write identifying information, such as page numbers or titles, on copies.
- Deliver completed work.
- File and store completed documents.
- Load machines with materials such as blank paper or film.
- Maintain stock of supplies, and requisition any needed items.
- Monitor machine operation, and make adjustments as necessary to ensure proper operation.
- Move heat units and clamping frames over screen beds to form Braille impressions on pages; then raise frames to release individual copies.
- Operate auxiliary machines such as collators, pad and tablet making machines, staplers, and paper punching, folding, cutting, and perforating machines.
- Operate office machines such as high speed business photocopiers, reader/scanners, addressing machines, stencil-cutting machines, microfilm reader/printers, folding and inserting, bursting, and binder machines.
- Place original copies in feed trays, feed originals into feed rolls, or position originals on tables beneath camera lenses.
- Prepare and process papers for use in scanning, microfilming, and microfiche.
- Read job orders to determine the type of work to be done, the quantities to be produced, and the materials needed.
- Set up and adjust machines, regulating factors such as speed, ink flow, focus, and number of copies.
- Sort, assemble, and proof completed work.

Detailed Tasks



cameras and equipment, such as process, line, halftone, and color separation cameras, enlargers, electronic scanners, and contact equipment.

- Operate and maintain laser plate-making equipment that converts electronic data to plates without the use of film.
- Operate presses to print proofs of plates, monitoring printing quality to ensure that it is adequate.
- Perform close alignment or registration of double and single flats to sensitized plates prior to exposure, in order to produce composite images.
- Perform minor deletions, additions, or corrections to completed plates, on or off printing presses, using tusche, printing ink, erasers, and needles.
- Perform tests to determine lengths of exposures, by exposing plates, scanning line copy, and comparing exposures to tone range scales.
- Place masking paper on areas of plates not covered by positives or negatives, in order to prevent exposure.
- Position and angle screens for proper exposure.
- Position color transparencies, negatives, or reflection copies on scanning drums, and mount drums and heads on scanners.
- Punch holes in light-sensitive plates and insert pins in holes to prepare plates for contact with positive or negative film.
- Remove plate-film assemblies from vacuum frames, and place exposed plates in automatic processors to develop images and dry plates.
- Reposition lamps and adjust aperture controls in order to provide high quality images.
- Scale copy for reductions and enlargements, using proportion wheels.
- Select proper types of plates according to press run lengths.
- Set scanners to specific color densities, sizes, screen rulings, and exposure adjustments, using scanner keyboards or computers.
- Transfer images from master plates to unexposed plates, and immerse plates in developing solutions to develop images.
- Unload exposed film from scanners, and place film in automatic processors to develop images.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- arrange galley setups of type
- assure quality control in printing processes
- clean equipment or machinery

Detailed Work Activities:

- collate printed materials
- demonstrate or explain assembly or use of equipment
- examine documents for completeness, accuracy, or conformance to standards
- maintain duplicating equipment
- maintain records, reports, or files
- operate business machines
- operate collating machine
- operate duplicating equipment
- operate printing equipment/machinery
- operate scanner
- perform office equipment maintenance not requiring service call
- select materials or tools
- set up production equipment or machinery
- use computers to enter, access or retrieve data
- use knowledge of paper characteristics in publishing or printing processes
- use oral or written communication techniques



- compute production, construction, or installation specifications
- determine film exposure settings
- determine specifications
- develop film or other photographic medium
- distinguish colors
- distinguish details in graphic arts material
- examine products or work to verify conformance to specifications
- fabricate printing plates
- fabricate, assemble, or disassemble manufactured products by hand
- identify color or balance
- install equipment or attachments on machinery or related structures
- load or unload material or workpiece into machinery
- maintain consistent production quality
- maintain or repair industrial or related equipment/machinery
- maintain production or work records
- make independent judgment in assembly procedures
- measure, weigh, or count products or materials
- mix paint, ingredients, or chemicals, according to specifications
- monitor production machinery/equipment operation to detect problems
- operate cameras
- operate graphic reproduction equipment
- operate printing equipment/machinery
- operate scanner
- operate video recorders
- paste up materials to be printed
- perform safety inspections in manufacturing or industrial setting
- prepare artwork for camera or press
- process photographic prints
- proofread printed or written material
- read blueprints
- read production layouts
- read specifications
- read technical drawings
- read work order, instructions, formulas, or processing charts
- set page layout or composition
- set up production equipment or machinery
- strip negatives
- understand technical operating, service or repair manuals
- use color analyzer
- use computer graphics design software
- use computers to enter, access or retrieve data



- use densitometer
- use drafting or mechanical drawing techniques
- use hand or power tools
- use precision measuring tools or equipment

Labor Market Comparison

Description	Prepress Technicians and Workers	Office Machine Operators, Except Computer	Difference
Median Wage	\$ 30,620	\$ 26,260	\$(4,360)
10th Percentile Wage	\$ 20,010	\$ 14,660	\$(5,350)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 35,650	\$ 32,830	\$(2,820)
90th Percentile Wage	\$ 39,160	\$ 36,540	\$(2,620)
Mean Wage	\$ 30,260	\$ 26,060	\$(4,200)
Total Employment - 2007	300	190	-110
Employment Base - 2006	303	178	-125
Projected Employment - 2016	249	169	-80
Projected Job Growth - 2006-2016	-17.8 %	-5.0 %	12.8 %
Projected Annual Openings - 2006-2016	5	6	1

National Job Posting Trends

Trend for Prepress Technicians and Workers

Trend for
Office
Machine
Operators,
Except
Computer



Data from [Indeed](http://Indeed.com)

Recommended Programs

Agricultural Business Technology

Agricultural Business Technology. A program that prepares individuals to perform specialized support functions related to agricultural business offices and operations and to operate agricultural office equipment, software, and information systems. Includes instruction in basic agricultural business principles, office management, equipment operation, standard software, and database management.

No schools available for the program

General Office/Clerical and Typing Services

General Office Occupations and Clerical Services. A program that prepares individuals to provide basic administrative support under the supervision of office managers, administrative assistants, secretaries, and other office personnel. Includes instruction in typing, keyboarding, filing, general business correspondence, office equipment operation, and communications skills.

Institution	Address	City	URL
Northern Maine Community College	33 Edgemont Dr	Presque Isle	www.nmcc.edu

Banking and Financial Support Services

Banking and Financial Support Services. A program that prepares individuals to perform a wide variety of customer services in banks, insurance agencies, savings and loan companies, and related enterprises. Includes instruction in communications and public relations skills, business equipment operation, and technical skills applicable to the methods and operations of specific financial or insurance services.

Institution	Address	City	URL
Eastern Maine Community College	354 Hogan Rd	Bangor	www.emcc.edu
Saint Josephs College	278 Whites Bridge Rd	Standish	www.sjcme.edu

Maine Statewide Promotion Opportunities for Prepress Technicians and Workers



O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
51-5022.00	Prepress Technicians and Workers	100	3	300	\$30,620.00	\$0.00	-18%	5
43-9031.00	Desktop Publishers	83	3	130	\$32,200.00	\$1,580.00	14%	5
27-1024.00	Graphic Designers	81	4	700	\$34,090.00	\$3,470.00	5%	30
27-4032.00	Film and Video Editors	79	3	80	\$30,810.00	\$190.00	-4%	2
51-4121.07	Solderers and Brazers	79	2	1,610	\$38,030.00	\$7,410.00	7%	49
27-3042.00	Technical Writers	77	4	50	\$46,060.00	\$15,440.00	-8%	2
43-9011.00	Computer Operators	77	3	230	\$33,120.00	\$2,500.00	-30%	4
51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	77	2	120	\$36,960.00	\$6,340.00	2%	3
15-1041.00	Computer Support Specialists	75	3	1,670	\$40,200.00	\$9,580.00	5%	61
17-3031.02	Mapping Technicians	75	3	190	\$33,210.00	\$2,590.00	5%	5
23-2091.00	Court Reporters	74	3	0	\$53,640.00	\$23,020.00	0%	0
43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	74	2	970	\$41,950.00	\$11,330.00	-12%	10
27-1014.00	Multi-Media Artists and Animators	73	4	70	\$44,630.00	\$14,010.00	9%	10
49-2011.00	Computer, Automated Teller, and Office Machine Repairers	73	3	640	\$32,000.00	\$1,380.00	3%	12
43-9041.02	Insurance Policy Processing Clerks	73	2	1,810	\$31,380.00	\$760.00	-8%	22

Top Industries for Office Machine Operators, Except Computer

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Depository credit intermediation	522100	9.53%	8,953	7,302	-18.44%
Data processing, hosting, and related services	518200	8.52%	8,001	8,654	8.15%



Professional and commercial equipment and supplies merchant wholesalers	423400	5.43%	5,101	4,757	-6.75%
Printing and related support activities	323100	5.19%	4,876	3,091	-36.61%
Management of companies and enterprises	551100	4.00%	3,756	3,464	-7.78%
Employment services	561300	3.22%	3,021	3,058	1.25%
Monetary authorities - central bank	521100	2.93%	2,753	2,664	-3.25%
Legal services	541100	2.58%	2,425	2,131	-12.13%
Office supplies, stationery, and gift stores	453200	1.87%	1,760	1,161	-34.00%
Local government, excluding education and hospitals	939300	1.74%	1,637	1,471	-10.13%
Colleges, universities, and professional schools, public and private	611300	1.66%	1,561	1,397	-10.50%
Activities related to credit intermediation	522300	1.56%	1,466	1,519	3.59%
Direct insurance (except life, health, and medical) carriers	524120	1.35%	1,271	1,063	-16.38%
Accounting, tax preparation, bookkeeping, and payroll services	541200	1.08%	1,012	960	-5.12%
Elementary and secondary schools, public and private	611100	1.03%	969	817	-15.70%

Top Industries for Prepress Technicians and Workers

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Printing and related support activities	323100	58.29%	41,328	29,471	-28.69%
Newspaper publishers	511110	15.03%	10,658	8,218	-22.90%
Converted paper product manufacturing	322200	4.22%	2,995	2,262	-24.47%
Advertising and related services	541800	1.62%	1,149	1,167	1.55%
Specialized design services	541400	1.29%	915	1,102	20.43%
Employment services	561300	0.85%	603	687	13.91%
Data processing, hosting, and related services	518200	0.73%	517	629	21.67%
Plastics product manufacturing	326100	0.67%	473	451	-4.60%
Colleges, universities, and professional schools, public and private	611300	0.58%	411	413	0.68%
Management of companies and enterprises	551100	0.53%	373	387	3.75%
Semiconductor and other electronic component manufacturing	334400	0.42%	294	232	-21.33%
Federal government, excluding postal service	919999	0.36%	254	216	-14.92%
Paper and paper product merchant wholesalers	424100	0.34%	244	234	-3.85%
State government, excluding education and hospitals	929200	0.26%	186	164	-11.69%



Manufacturing and reproducing magnetic and optical media	334600	0.22%	153	135	-11.57%
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